

Important Design Data

ASK ABOUT....
MSC's new miniature
illuminated push-button switch:
SERIES 90E TELLITE SWITCH



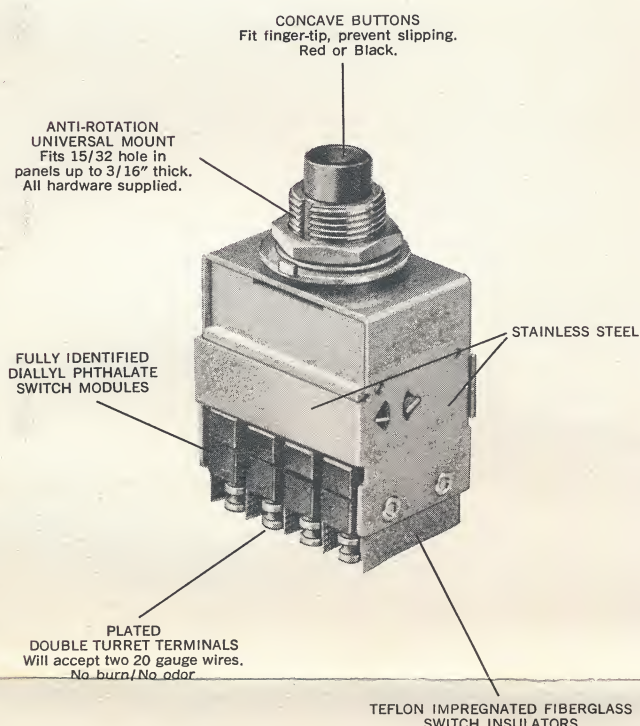
T NELSON
BOX 1546
POUGHKEEPSIE, N.Y.

12603

**Now from
Master Specialties Company...
unlighted pushbutton
and toggle switches
that meet all applicable
requirements of
MIL-S-8805B!**

Simplify procurement . . . avoid costly qualification testing . . . Specify **MSC**

MSC Series 14H Pushbutton Switch Assemblies Per MIL-S-8805B



Master Specialties Company Series 14H panel-mount push-button switches for aircraft, ground support equipment and other military applications are produced to conform to all requirements of Mil-S-8805B.

Instantaneous "No-Tease" Contact Transfer

"Snap-Action" operation assures instantaneous contact transfer of all switch units in the assembly, prohibits "tease" operation and provides a strong tactile indication of switch action. The force requirement for switching is sufficient to preclude accidental switching.

Diallyl Phthalate Switch Housings.

The subminiature switches used in Series 14H assemblies are molded of Diallyl Phthalate for high temperature operation and because of its inherent ability to retain physical and electrical properties during prolonged exposure to environmental extremes.

All Stainless Steel and Plastic Construction.

Series 14H assemblies are fabricated from stainless steel and plastics capable of withstanding most environmental severities.

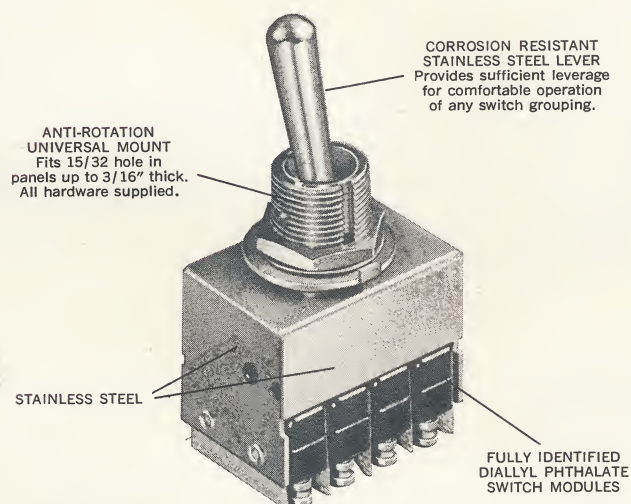
Universal, Anti-rotation Mounting.

Mounting can be accomplished by means of one standard 15/32" diameter hole in panels up to 3/16" thick. All required mounting hardware, including an anti-rotation keying washer, is included with each unit.

SERIES 14H ORDERING INFORMATION

MILITARY PART NUMBER	MSC PART NUMBER	DESCRIPTION
M8805/23-001	14H-102B	2PDT - Momentary Action Black Button
M8805/23-002	14H-102R	2PDT - Momentary Action Red Button
M8805/23-003	14H-104B	4PDT - Momentary Action Black Button
M8805/23-004	14H-104R	4PDT - Momentary Action Red Button
M8805/25-001	14H-302B	2PDT - Alternate Action Black Button
M8805/25-002	14H-302R	2PDT - Alternate Action Red Button
M8805/25-003	14H-304B	4PDT - Alternate Action Black Button
M8805/25-004	14H-304R	4PDT - Alternate Action Red Button

MSC Series 16H Toggle Switch Assemblies Per MIL-S-8805B



Series 16H alternate action toggle switch assemblies firmly maintain switch contacts in the open or closed position under the severe conditions of shock and vibration specified in Mil-Std-202. The corrosion resistant stainless steel lever is long enough to provide sufficient leverage for comfortable operation of any switch grouping.

Simultaneous Contact Transfer

The switching mechanism design of the Series 16H is so precise that it features virtually simultaneous transfer of all switch contacts within a 5° segment of the toggle lever 34° travel arc. Coupled with a force requirement that precludes accidental switching, and positive, full-travel lever action that prohibits "tease" operation, this switch is ideally suited for any aircraft, aerospace or ground support military equipment design. The same quality features of the Series 14H switch assemblies detailed above apply to the Series 16H toggle switch assemblies.

SERIES 16H ORDERING INFORMATION

MILITARY PART NUMBER	MSC PART NUMBER	DESCRIPTION
M8805/24-001	16H-302	2PDT - Alternate Action
M8805/24-002	16H-304	4PDT - Alternate Action

SERIES 14H MOMENTARY ACTION ASSEMBLIES PER MIL-S-8805/23

Performance Characteristics

OPERATING FORCE: 5.5 lbs. max.

CONTACT ARRANGEMENT: 2PDT or 4PDT, Momentary Action

CONTACT RESISTANCE: 25mΩ

SWITCH RATINGS:

5 amps at 125 VAC.

2.5 amps inductive or 4 amps resistive at 30 VDC.

ELECTRICAL LIFE: 25,000 cycles at full rated load.

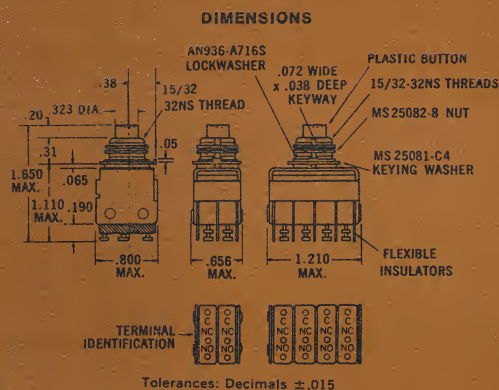
MECHANICAL LIFE: 50,000 cycles.

SHOCK: Per Mil-Std-202, Method 202, 50G.

VIBRATION: Per Mil-Std-202, Method 204, Cond. A.

DIELECTRIC: 1,000 volts at sea level for one minute.

OPERATING TEMPERATURE RANGE: -55°C to +85°C.



PANEL CUTOUT



*Will be blind hole for sealed unit or if desired for appearance, when keying washer is used.

SERIES 14H ALTERNATE ACTION ASSEMBLIES PER MIL-S-8805/25

Performance Characteristics

OPERATING FORCE: 6.5 lbs. max.

CONTACT ARRANGEMENT: 2PDT, or 4PDT, Alternate Action

CONTACT RESISTANCE: 25mΩ

SWITCH RATINGS:

5 amps at 125 VAC.

2.5 amps inductive or 4 amps resistive at 30 VDC.

ELECTRICAL LIFE: 25,000 cycles at full rated load.

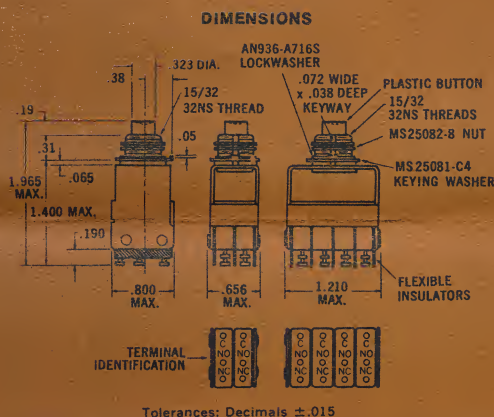
MECHANICAL LIFE: 50,000 cycles.

SHOCK: Per Mil-Std-202, Method 202, 50G.

VIBRATION: Per Mil-Std-202, Method 204, Cond. A.

DIELECTRIC: 1,000 volts at sea level for one minute.

OPERATING TEMPERATURE RANGE: -55°C to +85°C.



PANEL CUTOUT



*Will be blind hole for sealed unit or if desired for appearance, when keying washer is used.

SERIES 16H ALTERNATE ACTION ASSEMBLIES PER MIL-S-8805/24

Performance Characteristics

ALTERNATE ACTION: Maintained in either position.

CONTACT ARRANGEMENT: 2PDT or 4PDT

CONTACT RESISTANCE: 25 mΩ

SWITCH RATINGS:

5 amps at 125 VAC.

2.5 amps inductive or 4 amps resistive at 30 VDC.

ELECTRICAL LIFE: 25,000 cycles at full rated load.

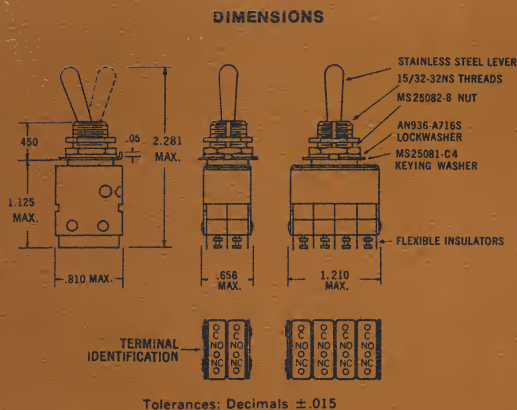
MECHANICAL LIFE: 50,000 cycles.

SHOCK: Per Mil-Std-202, Method 202, 50G.

VIBRATION: Per Mil-Std-202, Method 204, Cond. A.

DIELECTRIC: 1,000 volts at sea level for one minute.

OPERATING TEMPERATURE RANGE: -55°C to +85°C.



PANEL CUTOUT



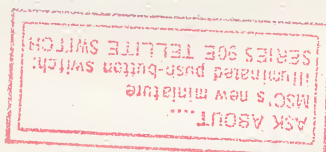
*Will be blind hole for sealed unit or if desired for appearance, when keying washer is used.

CONTACT YOUR NEAREST MSC REGIONAL OFFICE OR STOCKING DISTRIBUTOR FOR PRICE AND DELIVERY INFORMATION.

Important Data Design

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